

RAW SEQUENCE LISTING

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Application Serial Number: 10/521,288
Source: PCT
Date Processed by STIC: 1-26-05

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PCT

RAW SEQUENCE LISTING

DATE: 01/26/2005

PATENT APPLICATION: US/10/521,288

TIME: 12:55:09

Input Set : A:\11899.0235.PCUS00.ST25.txt

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3 <110> APPLICANT: Flasiński, Stanisław

5 <120> TITLE OF INVENTION: Methods for Using Artificial Polynucleotides and Compositions

6 thereof to Reduce Transgene Silencing

8 <130> FILE REFERENCE: 11899.0235.PCUS00

C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/521,288

C--> 11 <141> CURRENT FILING DATE: 2005-01-14

13 <150> PRIOR APPLICATION NUMBER: US 06/396,665

14 <151> PRIOR FILING DATE: 2002-07-18

16 <160> NUMBER OF SEQ ID NOS: 35

18 <170> SOFTWARE: PatentIn version 3.3

20 <210> SEQ ID NO: 1

21 <211> LENGTH: 515

22 <212> TYPE: PRT

23 <213> ORGANISM: Oryza sativa

25 <400> SEQUENCE: 1

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28 1 5 10 15

31 Leu Asp Gln Ala Val Ala Ala Ser Ala Ala Phe Ser Ser Arg Lys Gln

32 20 25 30

35 Leu Arg Leu Pro Ala Ala Ala Arg Gly Gly Met Arg Val Arg Val Arg

36 35 40 45

39 Ala Arg Gly Arg Arg Glu Ala Val Val Val Ala Ser Ala Ser Ser Ser

40 50 55 60

43 Ser Val Ala Ala Pro Ala Ala Lys Ala Glu Glu Ile Val Leu Gln Pro

44 65 70 75 80

47 Ile Arg Glu Ile Ser Gly Ala Val Gln Leu Pro Gly Ser Lys Ser Leu

48 85 90 95

51 Ser Asn Arg Ile Leu Leu Leu Ser Ala Leu Ser Glu Gly Thr Thr Val

52 100 105 110

55 Val Asp Asn Leu Leu Asn Ser Glu Asp Val His Tyr Met Leu Glu Ala

56 115 120 125

59 Leu Lys Ala Leu Gly Leu Ser Val Glu Ala Asp Lys Val Ala Lys Arg

60 130 135 140

63 Ala Val Val Val Gly Cys Gly Gly Lys Phe Pro Val Glu Lys Asp Ala

64 145 150 155 160

67 Lys Glu Glu Val Gln Leu Phe Leu Gly Asn Ala Gly Ile Ala Met Arg

68 165 170 175

71 Ser Leu Thr Ala Ala Val Thr Ala Ala Gly Gly Asn Ala Thr Tyr Val

72 180 185 190

75 Leu Asp Gly Val Pro Arg Met Arg Glu Arg Pro Ile Gly Asp Leu Val

76 195 200 205

79 Val Gly Leu Lys Gln Leu Gly Ala Asp Val Asp Cys Phe Leu Gly Thr

80 210 215 220

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84 225                230                235                240
87 Lys Val Lys Leu Ser Gly Ser Ile Ser Ser Gln Tyr Leu Ser Ala Leu
88                245                250                255
91 Leu Met Ala Ala Pro Leu Ala Leu Gly Asp Val Glu Ile Glu Ile Ile
92                260                265                270
95 Asp Lys Leu Ile Ser Ile Pro Tyr Val Glu Met Thr Leu Arg Leu Met
96                275                280                285
99 Glu Arg Phe Gly Val Lys Ala Glu His Ser Asp Ser Trp Asp Arg Phe
100                290                295                300
103 Tyr Ile Lys Gly Gly Gln Lys Tyr Lys Ser Pro Gly Asn Ala Tyr Val
104 305                310                315                320
107 Glu Gly Asp Ala Ser Ser Ala Ser Tyr Phe Leu Ala Gly Ala Ala Ile
108                325                330                335
111 Thr Gly Gly Thr Val Thr Val Gln Gly Cys Gly Thr Thr Ser Leu Gln
112                340                345                350
115 Gly Asp Val Lys Phe Ala Glu Val Leu Glu Met Met Gly Ala Lys Val
116                355                360                365
119 Thr Trp Thr Asp Thr Ser Val Thr Val Thr Gly Pro Pro Arg Glu Pro
120                370                375                380
123 Tyr Gly Lys Lys His Leu Lys Ala Val Asp Val Asn Met Asn Lys Met
124 385                390                395                400
127 Pro Asp Val Ala Met Thr Leu Ala Val Val Ala Leu Phe Ala Asp Gly
128                405                410                415
131 Pro Thr Ala Ile Arg Asp Val Ala Ser Trp Arg Val Lys Glu Thr Glu
132                420                425                430
135 Arg Met Val Ala Ile Arg Thr Glu Leu Thr Lys Leu Gly Ala Ser Val
136                435                440                445
139 Glu Glu Gly Pro Asp Tyr Cys Ile Ile Thr Pro Pro Glu Lys Leu Asn
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143 Ile Thr Ala Ile Asp Thr Tyr Asp Asp His Arg Met Ala Met Ala Phe
144 465                470                475                480
147 Ser Leu Ala Ala Cys Ala Asp Val Pro Val Thr Ile Arg Asp Pro Gly
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156                515
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160 <211> LENGTH: 1548
161 <212> TYPE: DNA
162 <213> ORGANISM: Oryza sativa
164 <400> SEQUENCE: 2

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169 ggggggatgc ggggtgcgggt gcgggcgcgg gggcgggcgg aggcggtggt ggtggcgctc      180
171 gcgtcgctcg cgtcgggtggc agcgccggcg gcgaaggcgg aggagatcgt gctccagccc      240
173 atcaggggaga tctccggggc ggttcagctg ccagggtcca agtcgctctc caacaggatc      300
175 ctctctctct ccgccctctc cgagggcaca acagtgggtgg acaacttgct gaacagtgag      360

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181 aaagaggaag tgcaactctt cttgggggaac gctggaatcg caatgcatc cttgacagca 540
183 gccgtgactg ctgctggtgg aaatgcaact tatgtgcttg atggagtgcc acgaatgagg 600
185 gagagaccga ttggtgactt ggttgctcggg ttgaaacaac ttggtgcgga tgtcgactgt 660
187 ttcttggca ctgaatgccc acctgttcgt gtcaaggga ttggaggact tctggtggc 720
189 aaggttaagc tctctggttc catcagcagt cagtacttga gtgccttgct gatggctgct 780
191 cctttggccc ttggggatgt ggagatcgaa atcattgaca aactaatctc cattccttac 840
193 gttgaaatga cattgagatt gatggagcgt ttggtgtga aggcagagca ttctgatagt 900
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201 cttgagatga tgggagcaaa ggttacatgg actgacacca gtgtaaccgt aactggtcca 1140
203 ccacgtgagc cttatgggaa gaaacacctg aaagctgttg atgtcaacat gaacaaaatg 1200
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213 tccctcgctg cctgcgcgca cgtgcccgtg acgatcaggg accctgggtg caccgcgaag 1500
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220 <212> TYPE: DNA
221 <213> ORGANISM: Oryza sativ
223 <400> SEQUENCE: 3
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234 ctggtgcttt cagctctctc ggagggaaca acagttgttg ataactctgt gaatagttag 360
236 gatgtgcaat atatgctaga ggctctcaag gctctagggc tttctgtaga agcgataaaa 420
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246 ttctgggta ctgagtgtcc gccagtcaga gttaaaggaa tcgggtgggt gccgggcgga 720
248 aaggtaagc tgcggggcag tatttcgagt cagtatcttt ctgctctcct gatggctgct 780
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254 tgggatcggt tctacataaa gggaggccag aagtataagt ctctgggaa tgcctatgta 960
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264 cctgacgttg ctatgacact tgcctgtgtt gccctttttg cagacggccc aacggcgata 1260
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268 ctcaccaaac ttggtgcctc tgtagaggag ggccctgatt actgtatcat tacacccct 1380
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277 <210> SEQ ID NO: 4
278 <211> LENGTH: 1548
279 <212> TYPE: DNA
280 <213> ORGANISM: Oryza sativa
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293 ctggttgcctt cagctctctc ggagggaaca acagttgtgg ataactctgtt gaatagttag 360
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363 Ser Thr Ser Pro Glu Ile Val Leu Glu Pro Ile Lys Asp Phe Ser Gly

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371	Leu	Ala	Ala	Leu	Ser	Glu	Gly	Thr	Thr	Val	Val	Asp	Asn	Leu	Leu	Tyr
372				115					120					125		
375	Ser	Glu	Asp	Ile	His	Tyr	Met	Leu	Gly	Ala	Leu	Arg	Thr	Leu	Gly	Leu
376				130					135					140		
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388				180					185					190		
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396				210					215					220		
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419	Val	Glu	His	Ser	Gly	Asn	Trp	Asp	Arg	Phe	Leu	Val	His	Gly	Gly	Gln
420	305								310					315		320
423	Lys	Tyr	Lys	Ser	Pro	Gly	Asn	Ala	Phe	Val	Glu	Gly	Asp	Ala	Ser	Ser
424				325					330					335		
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436				370					375					380		
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448				420					425					430		
451	Val	Ala	Ser	Trp	Arg	Val	Lys	Glu	Thr	Glu	Arg	Met	Ile	Ala	Ile	Cys
452				435					440					445		
455	Thr	Glu	Leu	Arg	Lys	Leu	Gly	Ala	Thr	Val	Glu	Glu	Gly	Pro	Asp	Tyr
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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date